

**W-Test Cable Assemblies**<sup>TM</sup> are complete line of high precision flexible microwave cable assemblies, specially for stable phase testing. These **WT110 Cable Assemblies** are designed by excellent microwave interconnection technologies and have **good phase and amplitude stability up to 110GHz**. It is claimed to have excellent insertion loss, high phase/amplitude stability in relation to temperature.



## Features



1. Center Conductor : Silver Plated Copper
2. Dielectric core : LD PTFE
3. Outer Conductor : Silver Plated Copper Ribbon
4. Inner Braiding : SPC
5. Jacket : FEP
6. Crush Protection Layer
7. Braiding
8. PTFE Stable Gum.
9. Braided Outer Jacket

## Specification

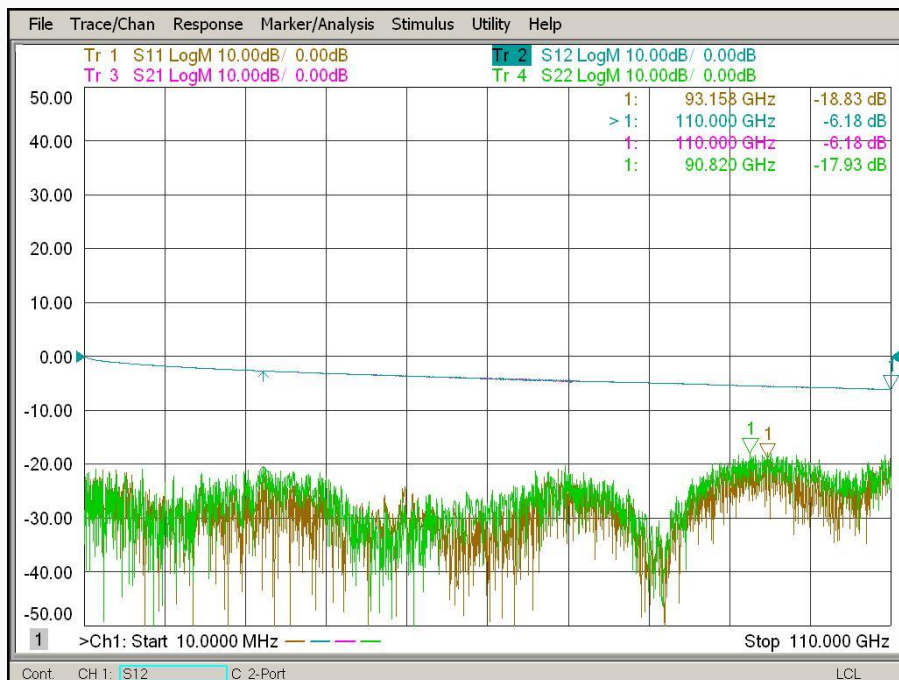
| Scope         | Specification                  | WT110 (110 GHz) |
|---------------|--------------------------------|-----------------|
| Electrical    | Impedance(Ohm)                 | 50              |
|               | Operation Freq.(GHz)           | 110             |
|               | VSWR(Max)                      | 1.4             |
|               | Amplitude stability (dB) *     | <+/- 0.2        |
|               | Phase stability (degree) *     | <+/- 7.0        |
|               | Attenuation (dB/M)             | 10.0 @ 110 GHz  |
|               | Velocity of propagation(%)     | 80              |
| Physical      | Bending radius(Min)            | 20 mm           |
|               | Connector                      | 1.0 mm          |
|               | Cable Diameter(mm)             | 6.4             |
| Environmental | Operating Temperature (degree) | - 55 to +125    |

\* cable was wrapped 360 degree around  $\Phi$  30 mm mandrel

## ■ Test Result

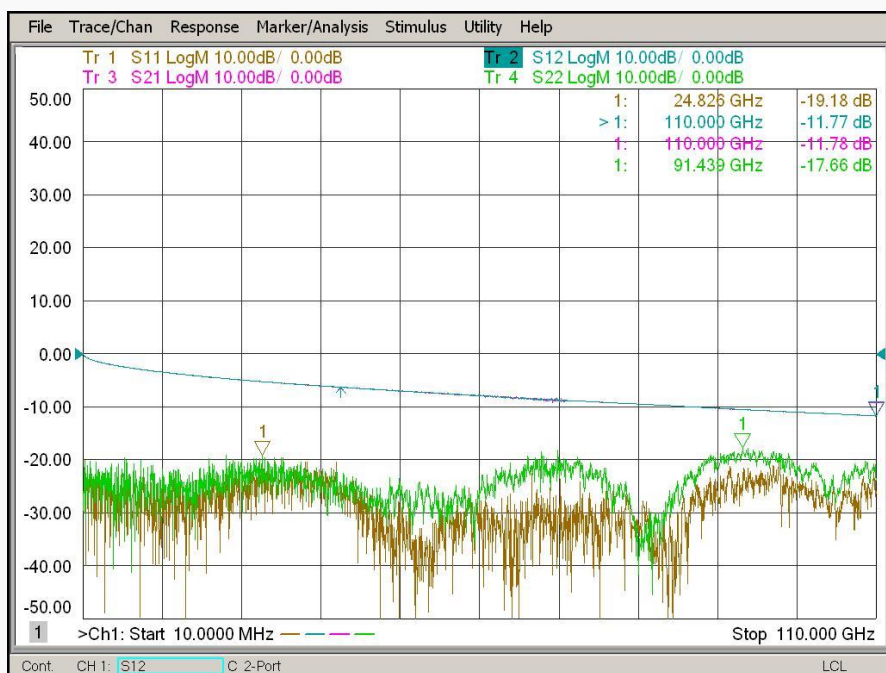
### Part No. : WT110-WM1WM1-0.5M

- Frequency : DC to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length : 0.5 meter



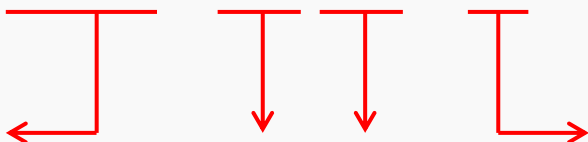
### Part No. : WT110-WM1WM1-1M

- Frequency : DC to 110 GHz
- Connector : 1.0 mm (Male)
- Cable Length : 1 meter



■ **Selection Guide**

**WT110 – WM1WM1 – 1M**



**Cable Type**

WT110 (110 GHz)

**Connector Type**

WM1: 1.0 mm Male  
WF1 : 1.0 mm Female

**Cable Length**

Unit : Meter



■ Revision History

| Revision           | Date                     | Changes                                                             |
|--------------------|--------------------------|---------------------------------------------------------------------|
| Ver 1.0<br>Ver 1.1 | 2019-10-21<br>2020-05-20 | Release New WT110 Cable Assembly (110 GHz)<br>Updated Specficiation |